

ABSTRACT OF THE DISCLOSURE**OFFSET CARRIER FREQUENCY CORRECTION IN A TWO-WAY BROADBAND  
WIRELESS ACCESS SYSTEM**Inventors:

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A method for correcting for the offset carrier frequency in a wireless modem is provided. The method further allows for the periodic correction of the offset of the carrier frequency. A Fine tuning method is implemented that uses fine tuning frequency increments to determine minimum and maximum edges of a received frequency from which to calculate an offset used to adjust the transmitted frequency or the receiver of the wireless modem. Power correction is performed for variances in received signal power by adjusting an output power relative to differences in received power compared to an expected received power value.

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